US BioTek LABORATORIES
13500 Linden Ave North Seattle, WA 98133 USA Tel: (206) 365-1256 Fax: (206) 363-8790 www.usbiotek.com

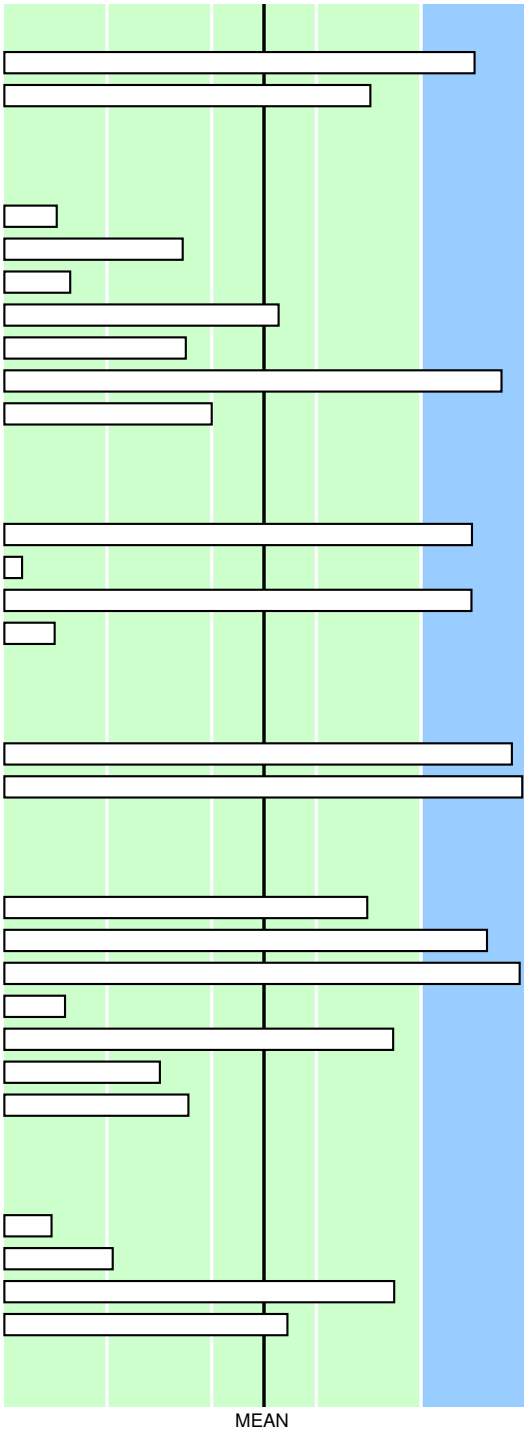
Urinary Metabolic Profile

Physician:
Patient:
Accession #:

Sex: F
Age: 40

Collected: 03/26/2012
Received: 04/02/2012
Completed: 04/10/2012

	Result	*Reference Range		Population Ranking
	(μg/mg creatinine)			0 10 20 30 40 50 60 70 80 90 99
Glycolysis Metabolites				
Pyruvate	4.03	$\leq$ 3.50	(H)	
Lactate	5.46	$\leq$ 6.50		
Citric Acid Cycle Metabolites				
Citrate	53.1	75.0 - 160.0	(L)	
Cis-Aconitate	8.8	7.5 - 13.0		
Isocitrate	16.4	18.0 - 30.0	(L)	
Alpha-Ketoglutarate	8.46	6.00 - 12.00		
Succinate	0.59	0.50 - 1.10		
Fumarate	0.58	0.15 - 0.30	(H)	
Malate	0.32	$\leq$ 0.55		
Fatty Acid Oxidation				
Adipate	1.04	$\leq$ 0.80	(H)	
Suberate	0.26	$\leq$ 1.30		
Ethylmalonate	1.24	$\leq$ 1.10	(H)	
Methylsuccinate	0.31	$\leq$ 0.60		
Ketone Metabolites				
Alpha-Hydroxybutyrate	0.83	$\leq$ 0.35	(H)	
Beta-Hydroxybutyrate	67.60	$\leq$ 2.00	(H)	
Markers for Cofactor Need				
Alpha-Ketoisovalerate	0.14	$\leq$ 0.15		
Alpha-Ketoisocaproate	0.26	$\leq$ 0.20	(H)	
Alpha-Keto-Beta-Methylvalerate	0.50	$\leq$ 0.25	(H)	
Beta-Hydroxyisovalerate	1.75	$\leq$ 11.50		
Methylmalonate	0.56	$\leq$ 0.60		
Kynurenate	0.36	$\leq$ 0.70		
Hydroxymethylglutarate	0.98	0.90 - 1.40		
Markers of Neurotransmitter Metabolism				
Vanilmandelate	0.63	0.75 - 1.20	(L)	
Homovanillate	0.91	0.90 - 1.60		
5-Hydroxyindoleacetate	15.6	5.5 - 17.0		
Quinolinate	35.5	$\leq$ 45.0		



*Reference ranges are gender specific and periodically updated; Results are age adjusted for children.

US BioTek Laboratories has developed and determined the performance characteristics of this test. This test is not intended to diagnose, treat, or prevent any disease or replace the medical advise and/or treatment obtained from a qualified healthcare practitioner. This test has not been evaluated by the U.S. Food and Drug Administration. This test does not assess for neonatal inborn error of metabolism and is based on stable renal function and normal renal clearance.
The analytes on the panel are subject to change without notice.

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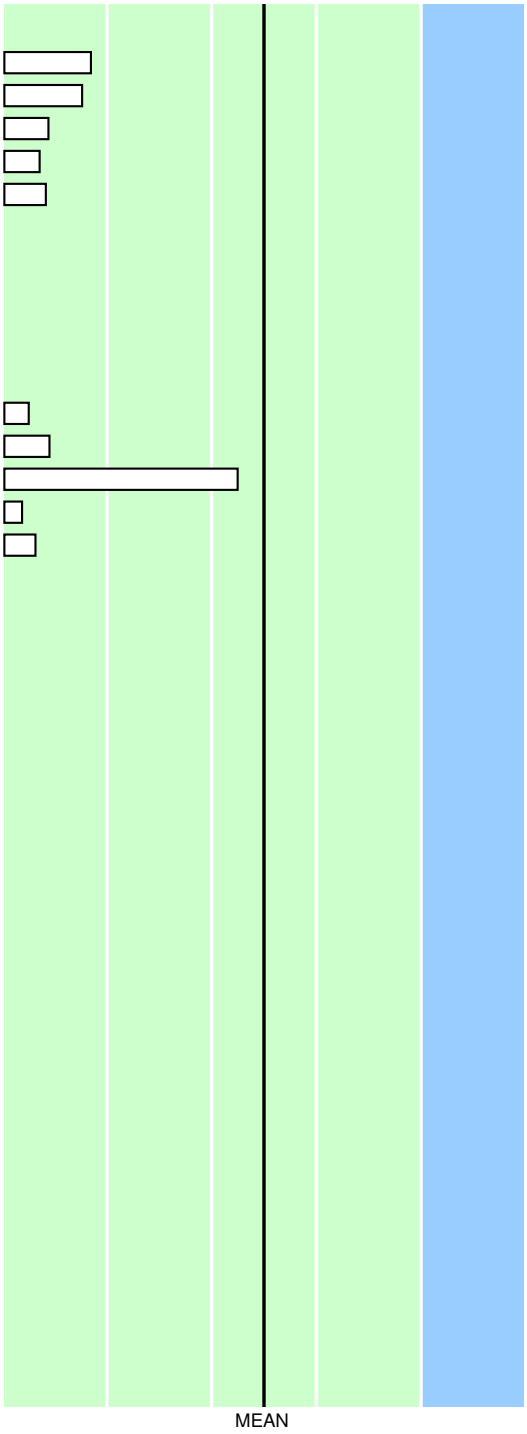
Markers of Detoxification				
Para-Hydroxyphenyllactate	0.15	$\leq$ 0.30		
Orotate	0.08	$\leq$ 0.20		
Pyroglutamate	4.31	5.50 - 8.00	(L)	
Benzoate	0.19	$\leq$ 2.00		
Hippurate	23.8	40.0 - 175.0	(L)	
Markers of Bacterial Metabolism				
Para-Hydroxybenzoate	0.17	$\leq$ 1.00		
Para-Hydroxyphenylacetate	2.19	$\leq$ 7.20		
2-Hydroxyphenylacetate	0.21	$\leq$ 0.30		
3-Indoleacetate	0.06	$\leq$ 2.00		
Tricarballylate	0.03	$\leq$ 0.15		



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Environmental Pollutants Panel

Physician:
Patient:
Accession #:

Sex: F
Age: 40

Collected: 03/26/2012
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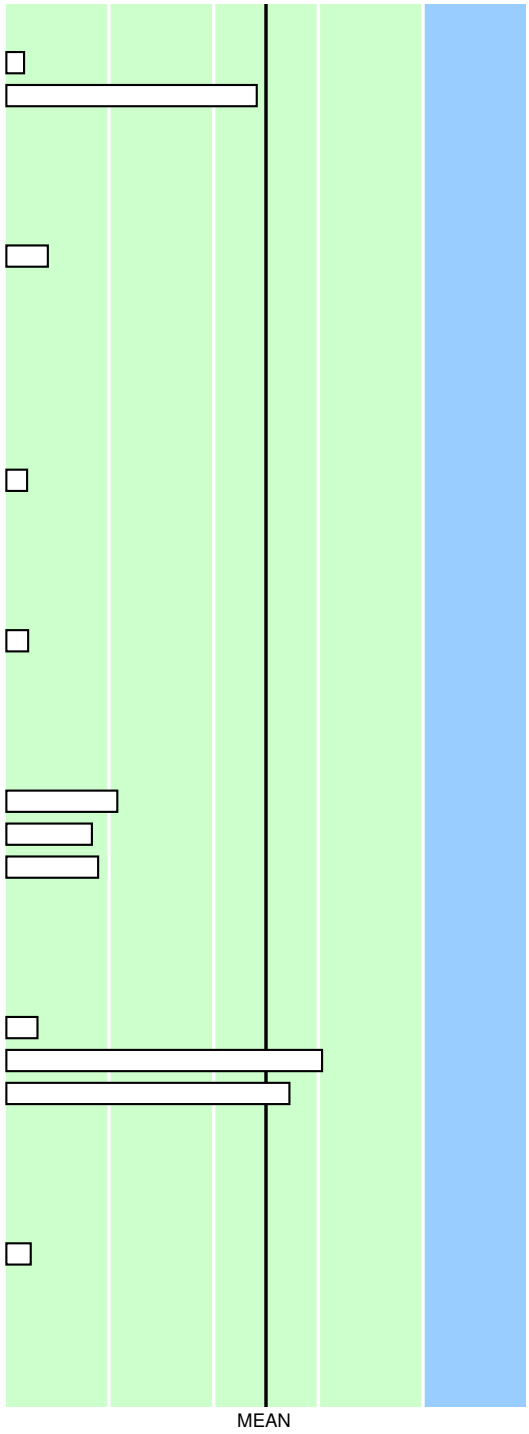
	Result	*Reference Range	Population Ranking
	(μg/dg creatinine)		0 10 20 30 40 50 60 70 80 90 99
Xylene Exposure			
3-Methylhippurate	0.35	$\leq$ 2.70	
2-Methylhippurate	1.41	$\leq$ 2.80	
Toluene Exposure			
Hippurate (μg/mg creatinine)	23.8	$\leq$ 175.0	
Benzoate (μg/mg creatinine)	0.19	$\leq$ 2.00	
Benzoate is metabolized to Hippurate. Elevations may cause elevated Hippurate independent of Toluene.			
Benzene Exposure			
t,t-Muconic acid	0.06	$\leq$ 0.40	
Trimethylbenzene Exposure			
3,4-Dimethylhippurate	0.05	$\leq$ 0.40	
Styrene Exposure			
Mandelate	0.76	$\leq$ 1.40	
Phenylglyoxylate	1.27	$\leq$ 2.00	
Mandelate + Phenylglyoxylate	2.03	$\leq$ 3.40	
Phthalate Exposure			
Monoethyl Phthalate	0.86	$\leq$ 4.00	
Phthalate	0.81	$\leq$ 1.00	
Quinolinate (μg/mg creatinine)	35.5	$\leq$ 45.0	
Paraben Exposure			
Para-Hydroxybenzoate (μg/mg creatinine)	0.17	$\leq$ 1.00	



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